

TYPICAL WATER TABLE MONITORING PORT (see note 1)

General Design Criteria for Monitoring Ports:

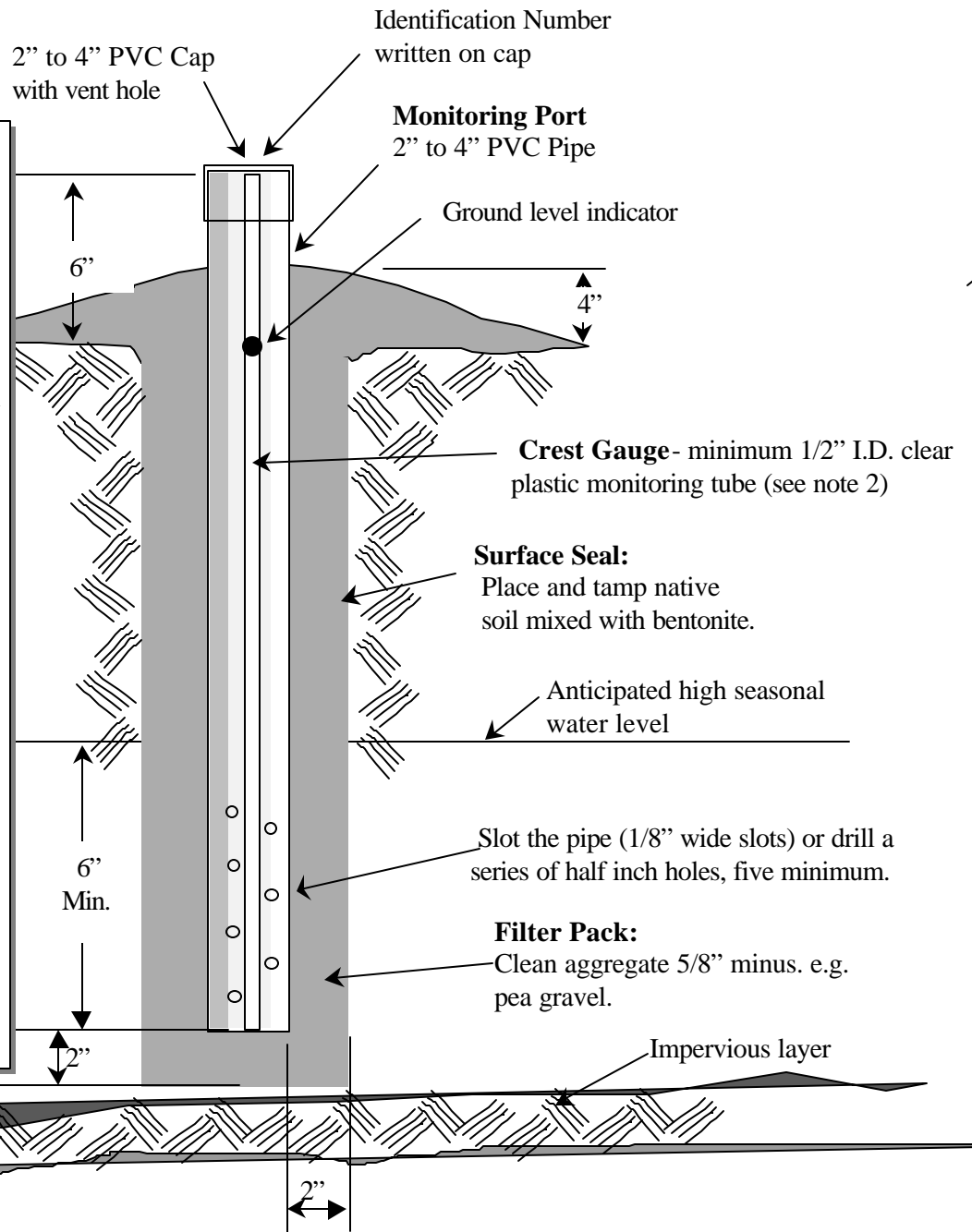
1. Filter pack- Clean pea gravel or other coarse material around the perforated or slotted pipe to prevent the filling of the pipe with fines.

2. Surface seal- Bentonite packed and mounded around the pipe to prevent surface water from puddling around the pipe. The top of pipe must terminate at least 2 " above the surface seal.

3. Pipe - Perforated or slotted for at least 6 inches in the anticipated saturated soil zone.

4. Port cap- Protective secured vented cover placed on top of the pipe to prevent water and debris from entering the pipe.

5. Placement- The well should be placed in, but not extended through the soil horizon that is to be monitored. The depth should penetrate at least 6 inches below the depth needed to meet minimum design vertical separation requirements.



Notes:

1. Monitoring Port

1. Monitoring port depth to be at least 6 inches below the depth needed to meet minimum vertical separation requirements.
2. Backfill hole with 2 inches washed pea gravel and place pipe.
3. Place filter fabric or paper over pea gravel and fill remainder of bore hole with soil/bentonite.
4. Cut vertical slots in top of casing to allow easy removal of pipe cap.
5. Drill vent hole in pipe cap.

2. Crest Gauge

1. Size the tube to fit inside the observation port casing. The tube length is to extend from the bottom of the observation hole and be flush with the top of the casing.
2. Place several pieces of undersized Styrofoam in tube.
3. Glue small piece of screen across bottom of tube or thread across hatch of small wire through several holes drilled at bottom of tube to prevent Styrofoam from being washed out of tube.